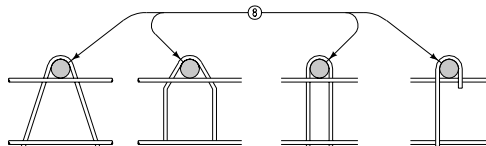
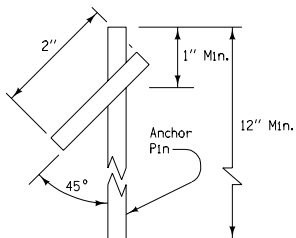


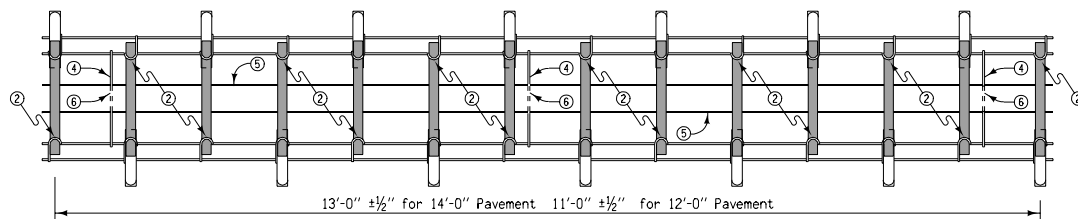
SECTION THRU EXPANSION JOINT ①



OPTIONAL LEG ASSEMBLIES

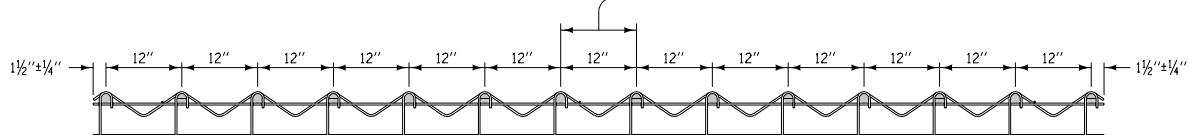


ANCHOR PIN DETAILS ①



PLAN VIEW

Spaces between dowel bars are nominal dimensions with a 1/4" allowable tolerance.



ELEVATION

JOINT OPENING AND EXPANSION TUBE EXTENSION

Joint Type	(X)	Minimum Tube Length
"ED"	1"	6"
"EE"	2"	7"
"EF"	4"	9"

DOWEL HEIGHT AND DIAMETER

(T)	(DH) ②	Diameter
7.0"	3.5"	3/4"
7.5"	3.5"	3/4"
8.0"	4.25"	1 1/4"
8.5"	4.25"	1 1/4"
9.0"	4.25"	1 1/4"
9.5"	4.25"	1 1/4"
10.0"	5.25"	1 1/2"
10.5"	5.25"	1 1/2"
11.0"	5.25"	1 1/2"
11.5"	6.25"	1 1/2"
12.0"	6.25"	1 1/2"
12.5"	6.25"	1 1/2"
13.0"	6.25"	1 1/2"

#### GENERAL NOTES:

Dowel bars shall be 18" long with a tolerance of  $\pm 1/8$ ". The centerline of individual dowels shall be parallel to the other dowels in the assembly within  $\pm 1/8$ ".

Wire size shown are minimum required, and the wire shall have a minimum tensile strength of 50 KSI.

- ① (8) anchor pins minimum required, 4 per side. Pins shall be #1/0 gage (.306) wire, be a minimum 12" long, and shall prevent movement of assembly during construction.
- ② Weld alternately thru-out.
- ③ #1/0 gage (.306) wire
- ④ (3) #10 gage (.135) wire, tie wire welded or friction fit to top longitudinal wire, both sides.
- ⑤ .250 dia. wire minimum
- ⑥ Clip and remove center portion of tie during field assembly.
- ⑦ Measured from the centerline of dowel bar to bottom of support wire  $\pm 1/4$ ".
- ⑧ Diameter of bend around dowel is dowel diameter + 1/8" to 3/16".

**Iowa Department of Transportation**  
Highway Division

STANDARD ROAD PLAN

RH-56

REVISION: Removed table with number of dowels.

REVISION NO.  
4

APPROVED BY: *William J. Allen*  
DESIGN/METHODS ENGINEER

REVISION DATE  
10-21-03

**FABRICATION DETAILS**  
**EXPANSION JOINT**  
**DOWEL ASSEMBLY**